

## **REPLACEMENT SHEET**

15

REPLACEMENT  
SHEET

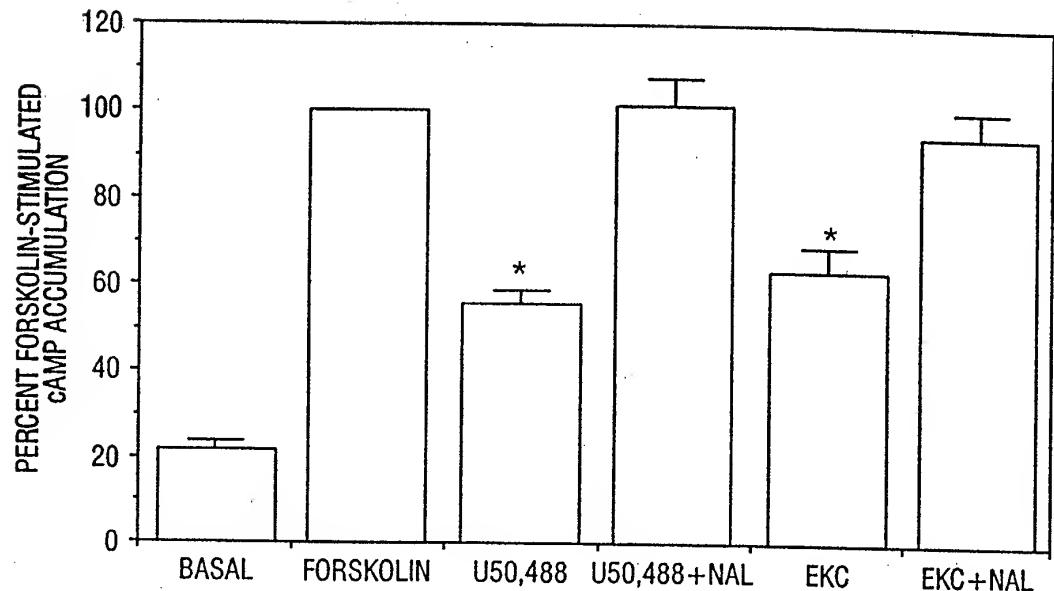


FIG. 2A

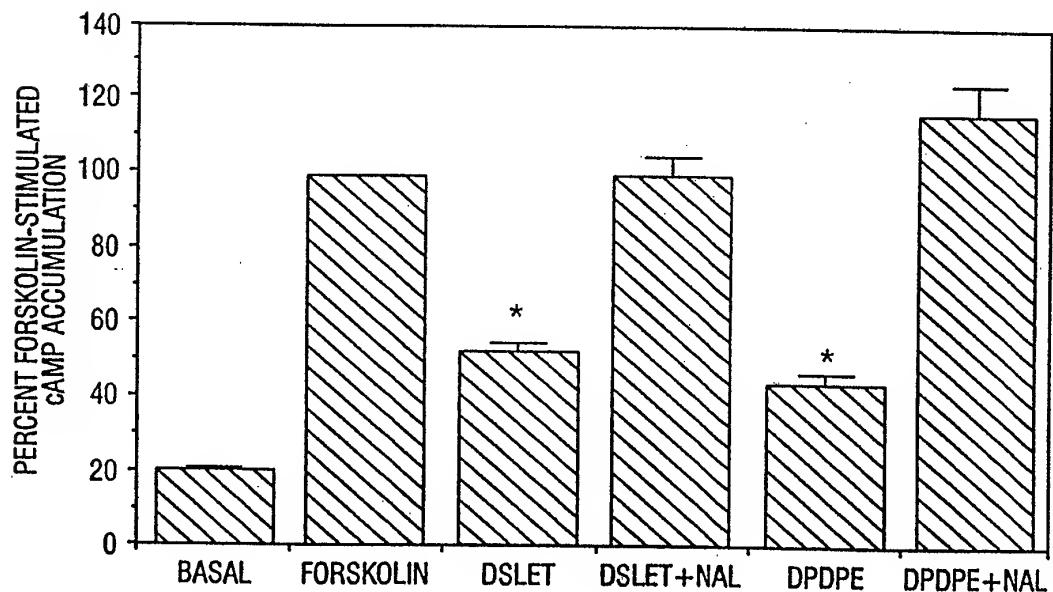


FIG. 2B

REPLACEMENT  
SHEET

1 AAGAAGCAAAATCAGTAATCCAAAGGCTATCACAAACACATTACACCTTATGGGGTTGAC  
61 TTGAAAATGGAGGGAAATGCTATTGTTCTTTCTTTAGATACACAAAGATGAAGACAG  
121 ThrAsnIleTyrIlePheAsnLeuAlaLeuAlaAspAlaLeuValThrThrMetPro  
CAACCAACATTACATATTAAACCTGGCTTTGGCAGATGCTTTAGTTACTACAACCATG  
181 PheGlnSerThrValTyrLeuMetAsnSerTrpProPheGlyAspValLeuCysLysIle  
CCTTTAGAGTACGGTCTACTTGATGAATTCCCTGGCCTTTGGGATGTGCTGTGCAAGA  
241 ValIleSerIleAspTyrTyrAsnMetPheThrSerIlePheThrLeuThrMetMetSer  
TAGTAATTCCATTGATTACTACAAACATGTTCACCAAGCATTCTCACCTTGACCATGATGA  
301 ValAspArgTyrIleAlaValCysHisProValLysAlaLeuAspPheArgThrProLeu  
GCGTGGACCGCTACATTGCCGTGTGCCACCCCGTGAAAGGCTTGGACTTCGGCACACCCCT  
361 LysAlaLysIleIleAsnIleCysIleTrpLeuSerSerSerValGlyIleSerAla  
TGAAGGCAAAAGATCATCAAAATATCTGCATCTGGCTCATCTGTCATCTGGCATTCTCTG

FIG. 3A

**REPLACEMENT  
SHEET**

361	TGAAGGCCAAAGATCATCAATATCTGCATCTGGCTGCTGTCATCTGGCATCTCTG	IleValLeuGlyGlyThrLysValArgGluA CAATAGTCCCTGGAGGCACCAAAAGTCAGGGAAAGGT	spValAspValIleGluCysCysLeuGlnPheProAsp
421	GGTTTTTATTGCCCTCCTCCAGACGTCGATGTCATTGAGTGCCTGCAGTTCCAGAT	AspAspTyrSerTrpTrpAspLeuPheMetLysIleCysValPheIlePheAlaPheVal	GATGACTACTCCTGGGGACCTCTTCAATGAAGATCTGCCTCTCATCTGATGATGAT
481			
541			
601	IleProValLeuIleIleValCysTyrThrLeuMetIleLeuArgLeuIysNNNNVal ATCCCTGTCATCATCGTCTGCTACACCCCTGATGATCCTGCCTCAAGANNGTC	IleProValLeuIleIleValCysTyrThrLeuMetIleLeuArgLeuIysNNNNVal ATCCCTGTCATCATCGTCTGCTACACCCCTGATGATCCTGCCTCAAGANNGTC	ArgLeuLeuSerGlySerArgGluIysAspNNNNAsnLeuArgArgIleThrArgLeuVal CGGCTCCCTTCTGGCTCCGAGAGAAAGATNNCAACCTGCGTAGGATCACCAAGACTGGTC
661			

FIG. 3B

REPLACEMENT  
SHEET

661 ArgLeuLeuSerGlySerArgGluLysAspNNNNAsnLeuArgArgIleThrArgLeuVal  
CGGCTCTTCTGGCTCCGAGAGAAAGATNNCAACCTGCGTAGGATCACCAAGACTGGTC

721 LeuValValAlaValPheValValCysTrpThrProIleHisIlePheIleLeuVal  
CTGGTGGTGGCTGGCAGTCTTCGTCGTCGACTCCATTACATATTCACTATTCCATGGTG

781 GluAlaLeuGlySerThrSerHisSerThrAlaAlaLeuSerSerTyrTyrPheCysIle  
GAGGCTCTGGGGAGCACCTCCCCACAGCACAGCTGCTCTCCAGCTATTACTTCTGCATC

841 AlaLeuGlyTyrThrAsnSerSerLeuAsnProIleLeuTyrAlaPheLeuAspGluAsn  
GCCTTAGGCTATACCAACAGTAGCCTGAATCCATTCTACGCCCTTCTGTGATGAAAC

901 PheLysArgCysPheArgAspPheCysPheProLeuLysMetNNNNMetGluArgNNNSer  
TTCAAGCGGTGTTCCGGGACTTCTGCTCTGACTGAGATGAGNATGGAGCGCNAGAGC

961 ThrSerArgValArgAsnThrValGlnAspProAlaTyrLeuArgGluIleAspGlyMet  
ACTAGCAGTCGGAAATACAGTTCAAGGATTCCTGCTTACCTGAGGGAGATCGATGGGATG

1021 MetAsnLysProVal1op (SEQ ID NO:12)  
ATGAATAAACAGTATGACTAGTCGTGGA (SEQ ID NO:11)

FIG. 3C

REPLACEMENT  
SHEET

	HUMAN	MOUSE
1	Met Glu Ser Pro Ile Gln Ile Phe Arg Gly Asp Pro Gly Pro Thr Cys	
5		5
10		10
15		15
20	Ser Pro Ser Ala Cys Leu Leu Pro Asn Ser Ser Trp Phe Pro Asn	
25		25
30		30
35	Trp Ala Glu Ser Asp Ser Asn Gly Ser Val Gly Ser Glu Asp Gln Gln	
40		40
45		45
50	Leu Glu Ser Ala His Ile Ser Pro Ala Ile Pro Val Ile Ile Thr Ala	
55		55
60		60
65	Val Tyr Ser Val Val Phe Val Val Gly Leu Val Gly Asn Ser Leu Val	
70		70
75		75
80		80
85	Tyr Thr Lys Met Lys Thr Ala Thr Asn Ile	
90		90
95	Met Phe Val Ile Ile Arg Tyr Thr Lys Met Lys Thr Ala Thr Asn Ile	

FIG. 4A-1

REPLACEMENT  
SHEET

HUMAN	Tyr	Ile	Phe	Asn	Leu	Ala	Leu	Ala	Asp	Ala	Leu	Val	Thr	Thr	Thr	Met
MOUSE	Tyr	Ile	Phe	Asn	Leu	Ala	Leu	Ala	Asp	Ala	Leu	Val	Thr	Thr	Thr	Met
																100
																105
HUMAN	Pro	Phe	Gln	Ser	Thr	Val	Tyr	Leu	Met	Asn	Ser	Trp	Pro	Phe	Gly	Asp
MOUSE	Pro	Phe	Gln	Ser	Ala	Val	Tyr	Leu	Met	Asn	Ser	Trp	Pro	Phe	Gly	Asp
																115
																120
HUMAN	Val	Leu	Cys	Lys	Ile	Val	Ile	Ser	Ile	Asp	Tyr	Tyr	Asn	Met	Phe	Thr
MOUSE	Val	Leu	Cys	Lys	Ile	Val	Ile	Ser	Ile	Asp	Tyr	Tyr	Asn	Met	Phe	Thr
																130
																135
HUMAN	Ser	Ile	Phe	Thr	Leu	Thr	Met	Met	Ser	Val	Asp	Arg	Tyr	Ile	Ala	Val
MOUSE	Ser	Ile	Phe	Thr	Leu	Thr	Met	Met	Ser	Val	Asp	Arg	Tyr	Ile	Ala	Val
																145
																150
HUMAN	Cys	His	Pro	Val	Lys	Ala	Leu	Asp	Phe	Arg	Thr	Pro	Leu	Lys	Ala	Lys
MOUSE	Cys	His	Pro	Val	Lys	Ala	Leu	Asp	Phe	Arg	Thr	Pro	Leu	Lys	Ala	Lys
																165
HUMAN	Ile	Ile	Asn	Ile	Cys	Ile	Trp	Leu	Leu	Ser	Ser	Ser	Val	Gly	Ile	Ser
MOUSE	Ile	Ile	Asn	Ile	Cys	Ile	Trp	Leu	Leu	Ala	Ser	Ser	Val	Gly	Ile	Ser
																180
																185
																190
																195

FIG. 4A-2

**REPLACEMENT  
SHEET**

FIG. 4A-3

REPLACEMENT  
SHEET

HUMAN	Thr	Arg	Leu	Val	Leu	Val	Val	Ala	Val	Phe	Val	Val	Cys	Trp	Thr
MOUSE	Thr	Lys	Leu	Val	Leu	Val	Val	Ala	Val	Phe	Ile	Ile	Cys	Trp	Thr
															285
HUMAN	Pro	Ile	His	Ile	Phe	Ile	Leu	Val	Glu	Ala	Leu	Gly	Ser	Thr	His
MOUSE	Pro	Ile	His	Ile	Phe	Ile	Leu	Val	Glu	Ala	Leu	Gly	Ser	Thr	His
															290
HUMAN	Ser	Thr	Ala	Ala	Leu	Ser	Ser	Tyr	Tyr	Phe	Cys	Ile	Ala	Leu	Gly
MOUSE	Ser	Thr	Ala	Ala	Leu	Ser	Ser	Tyr	Tyr	Phe	Cys	Ile	Ala	Leu	Tyr
															305
HUMAN	Asn	Ser	Leu	Asn	Pro	Ile	Leu	Tyr	Ala	Phe	Leu	Asp	Glu	Asn	
MOUSE	Asn	Ser	Leu	Asn	Pro	Val	Leu	Tyr	Ala	Phe	Leu	Asp	Glu	Asn	
															325
HUMAN	Thr	Asn	Ser	Ser	Leu	Asn	Pro	Ile	Leu	Tyr	Ala	Phe	Leu	Asp	
MOUSE	Thr	Asn	Ser	Ser	Leu	Asn	Pro	Val	Leu	Tyr	Ala	Phe	Leu	Asp	
															330
															335
															320

FIG. 4B-1

REPLACEMENT  
SHEET

HUMAN	Phe	Lys	Arg	Cys	Phe	Arg	Asp	Phe	Cys	Phe	Pro	Leu	Lys	Met	NNN	Met
MOUSE	Phe	Lys	Arg	Cys	Phe	Arg	Asp	Phe	Cys	Phe	Pro	Ile	Lys	Met	Arg	Met
															345	350
HUMAN	Glu	Arg	NNN	Ser	Thr	Ser	Arg	Val	Arg	Asn	Thr	Val	Gln	Asp	Pro	Ala
MOUSE	Glu	Arg	Gln	Ser	Thr	Asn	Arg	Val	Arg	Asn	Thr	Val	Gln	Asp	Pro	Ala
															355	360
HUMAN	Tyr	Leu	Arg	Glu	Ile	Asp	Gly	Met	Met	Asn	Lys	Pro	Val		(SEQ ID NO:12)	
MOUSE	:	Ser	Met	Arg	Asp	Val	Gly	Gly	Met	Asn	Lys	Pro	Val		(SEQ ID NO:2)	
															375	380

FIG. 4B-2

REPLACEMENT  
SHEET

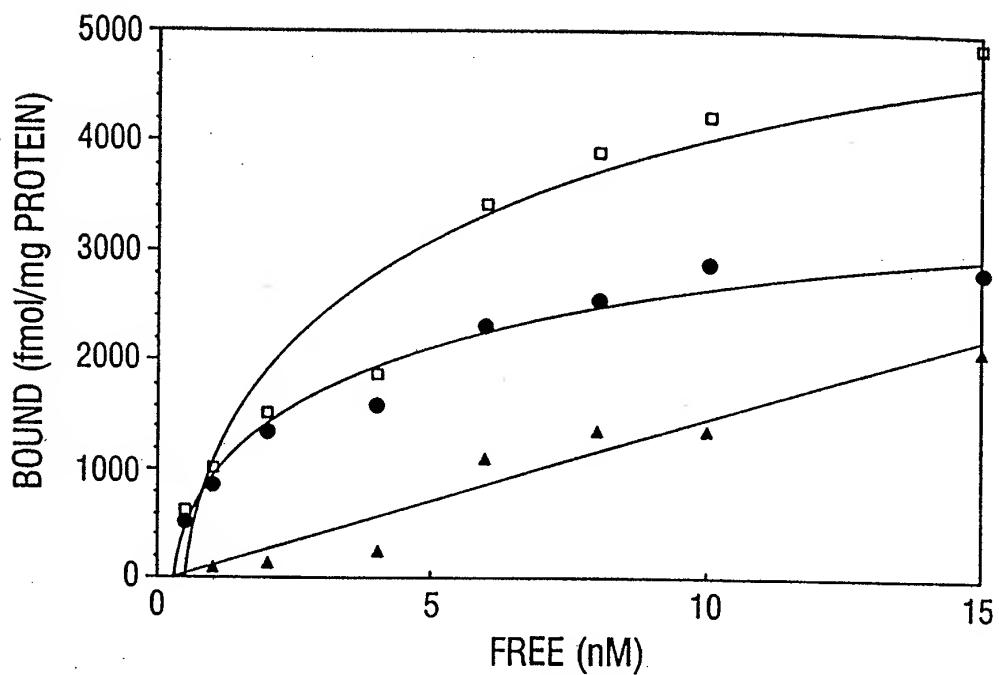


FIG. 5A

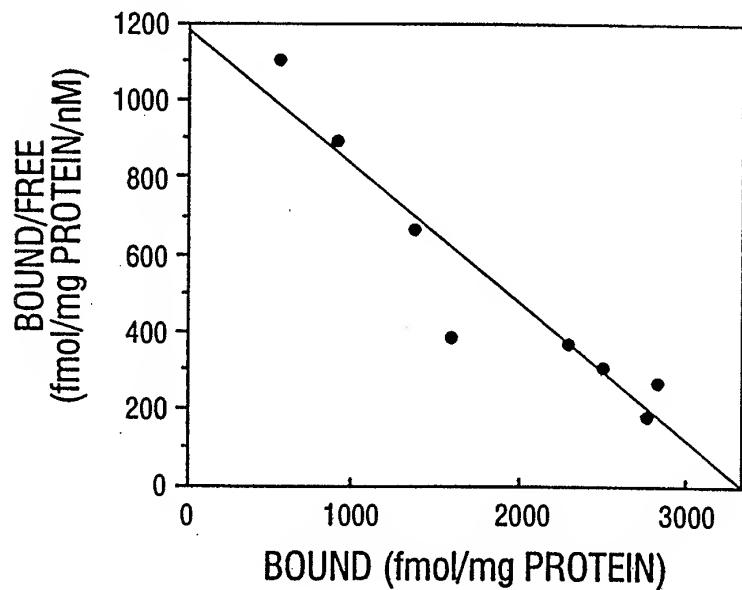


FIG. 5B

REPLACEMENT  
SHEET

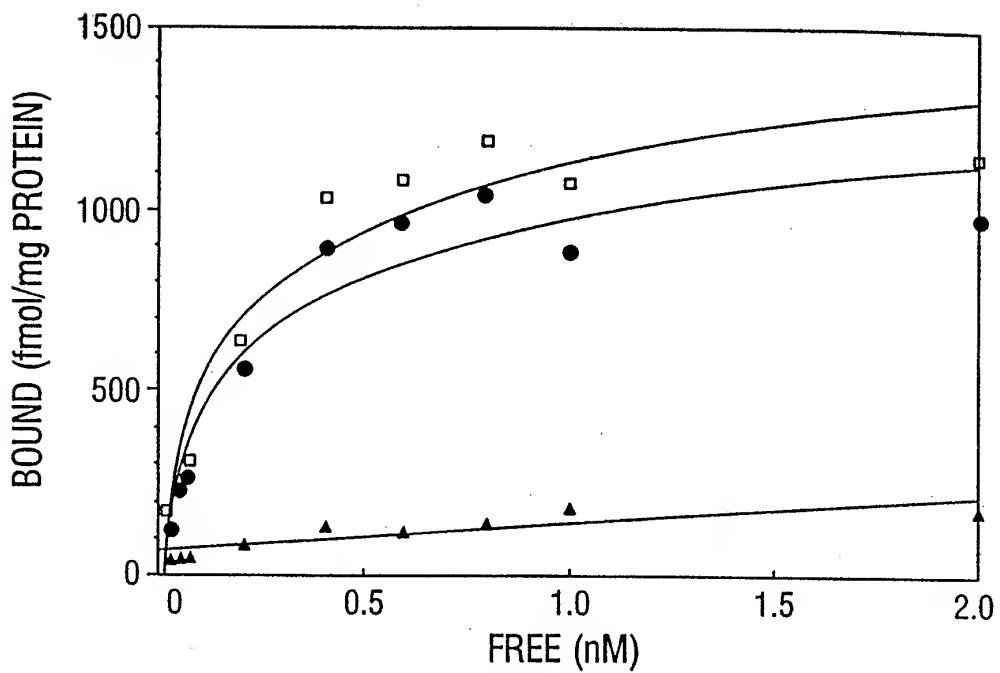


FIG. 5C

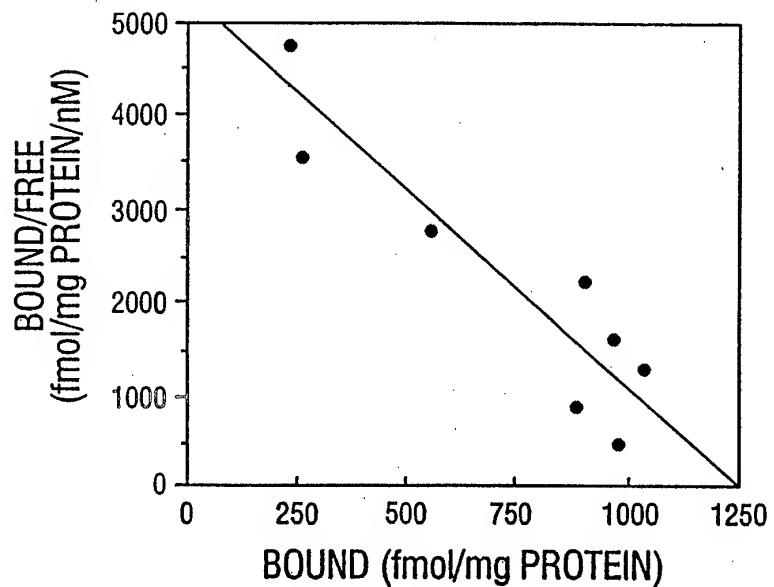


FIG. 5D

REPLACEMENT  
SHEET

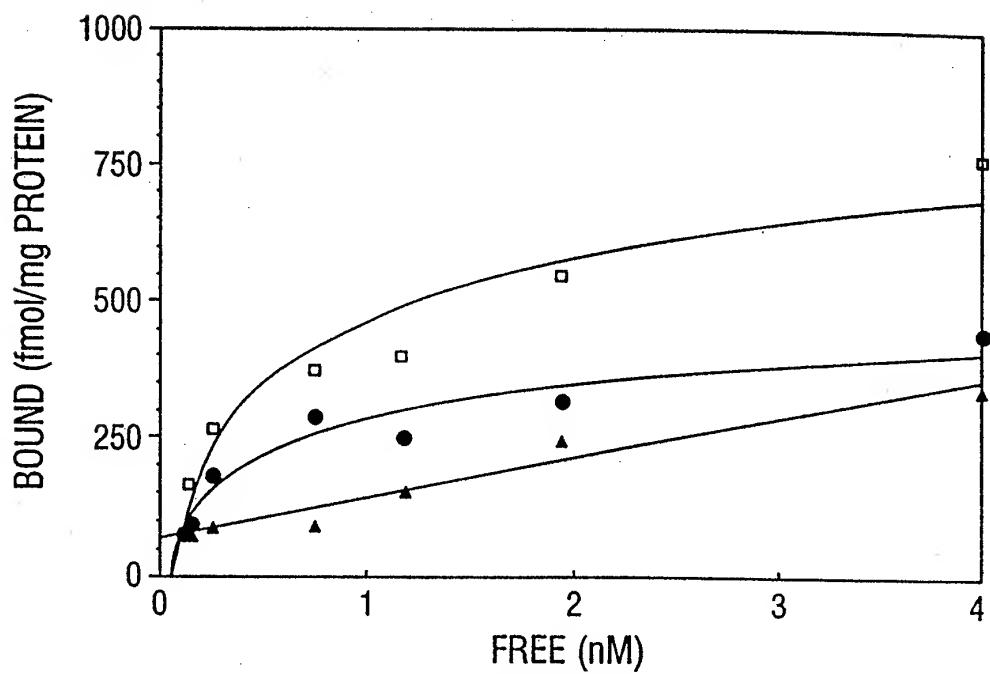


FIG. 5E

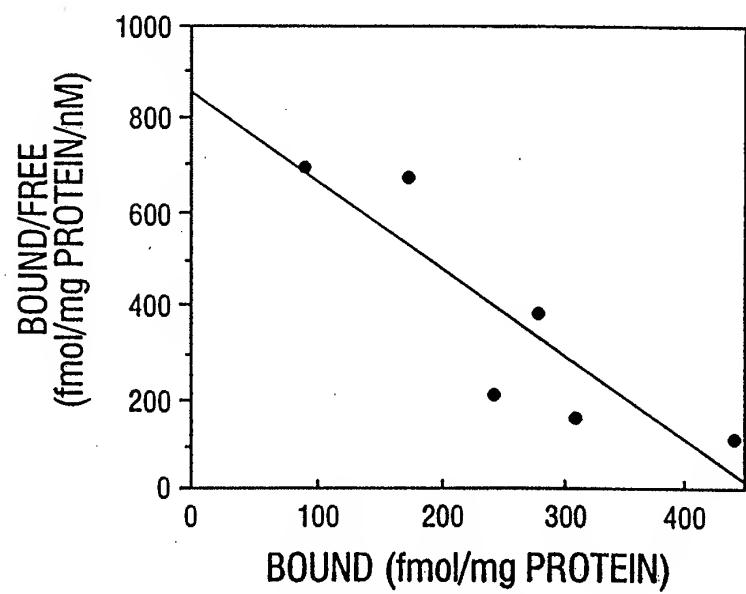


FIG. 5F

REPLACEMENT  
SHEET

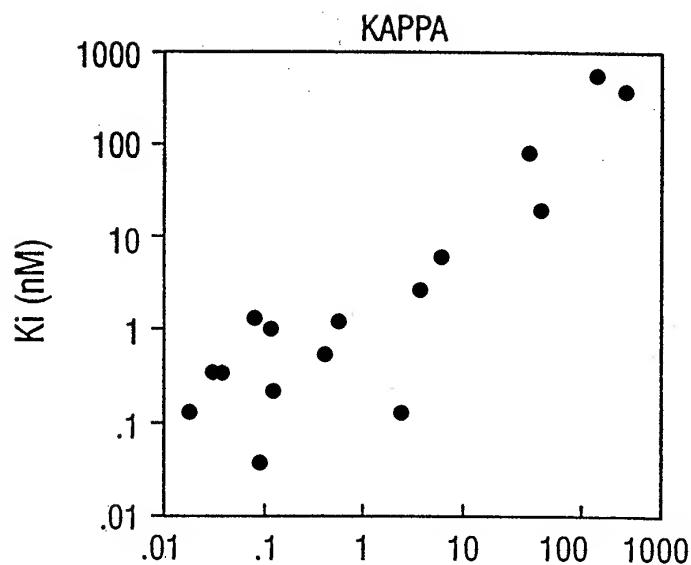


FIG. 6A

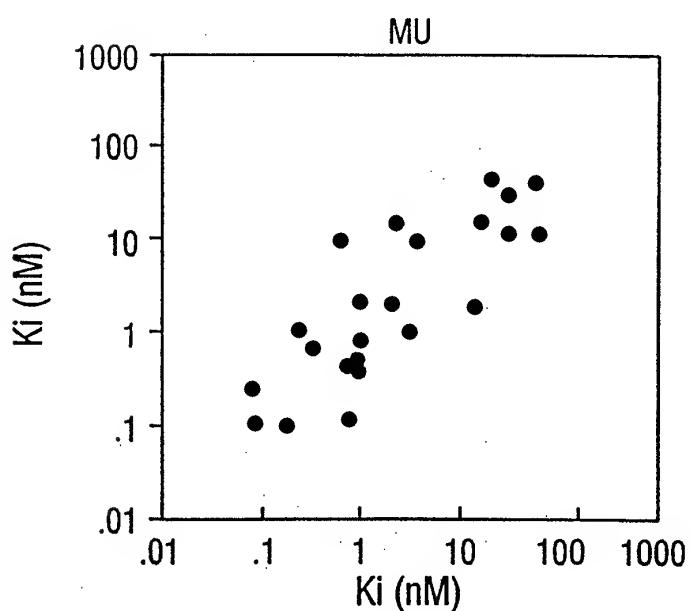


FIG. 6B

REPLACEMENT  
SHEET

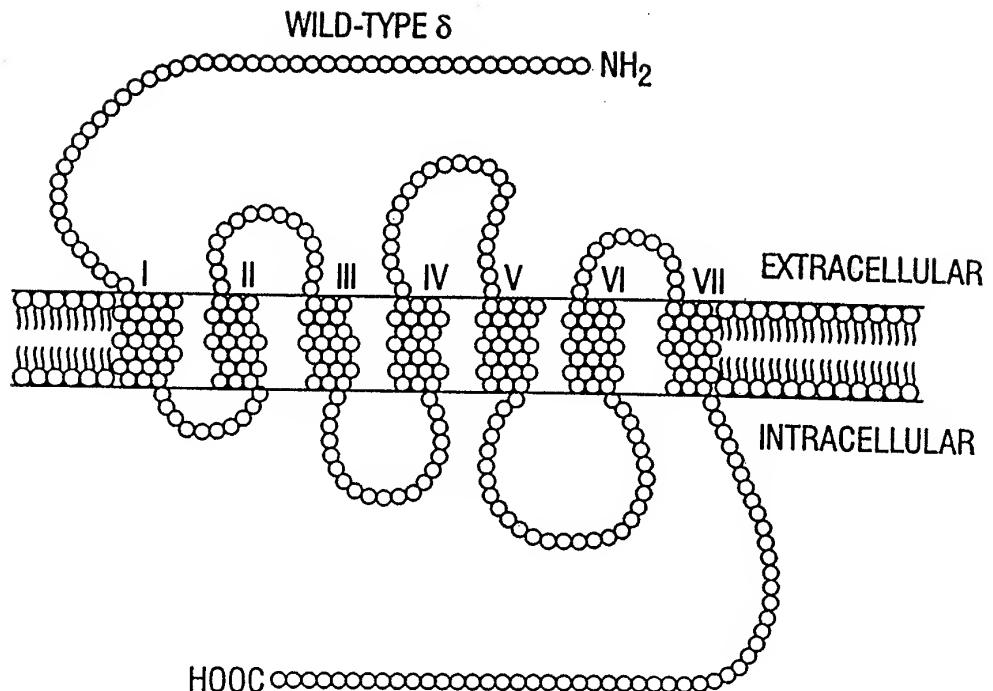


FIG. 7A

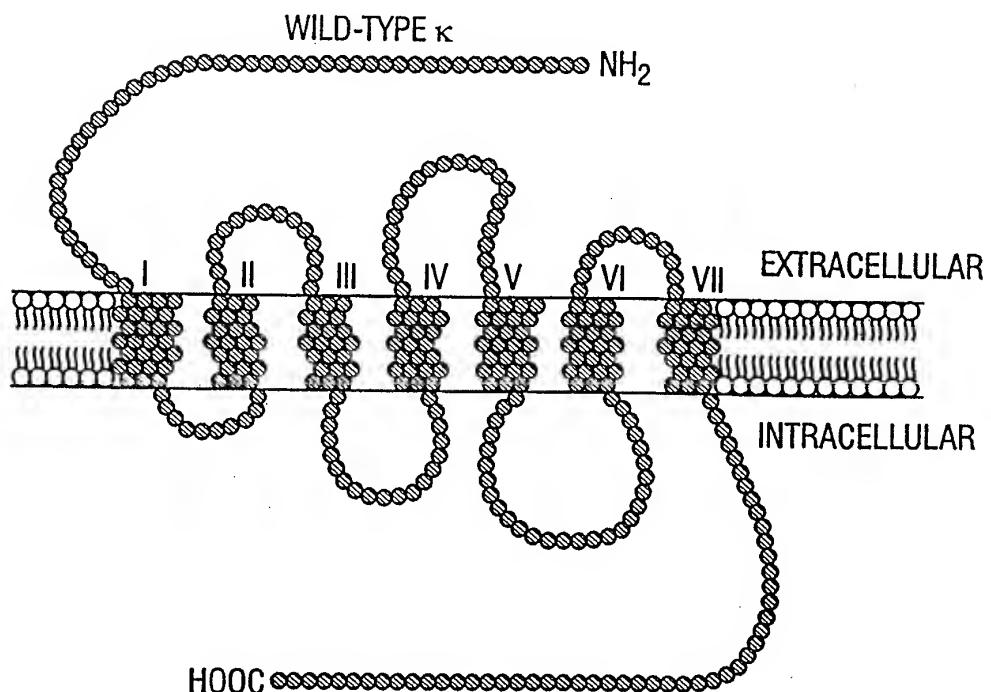


FIG. 7B

REPLACEMENT  
SHEET

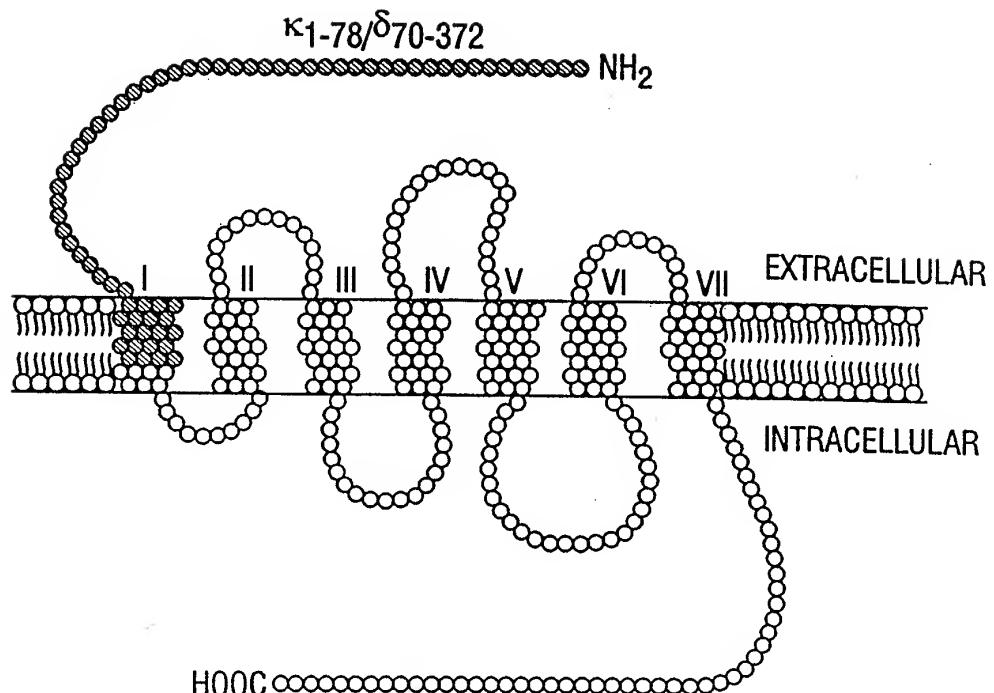


FIG. 7C

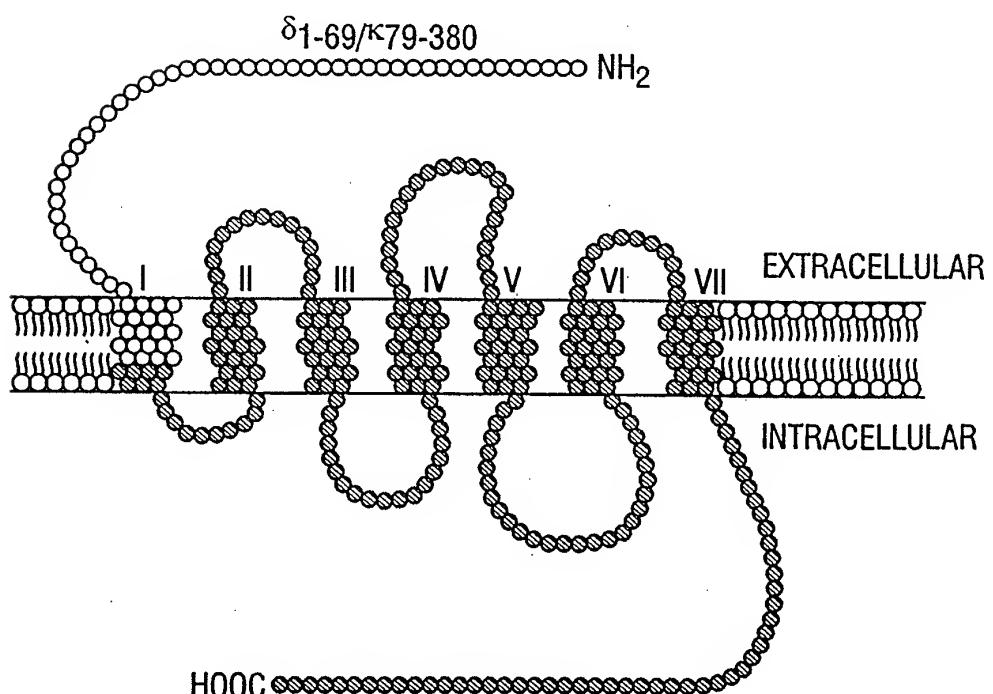


FIG. 7D

REPLACEMENT  
SHEET

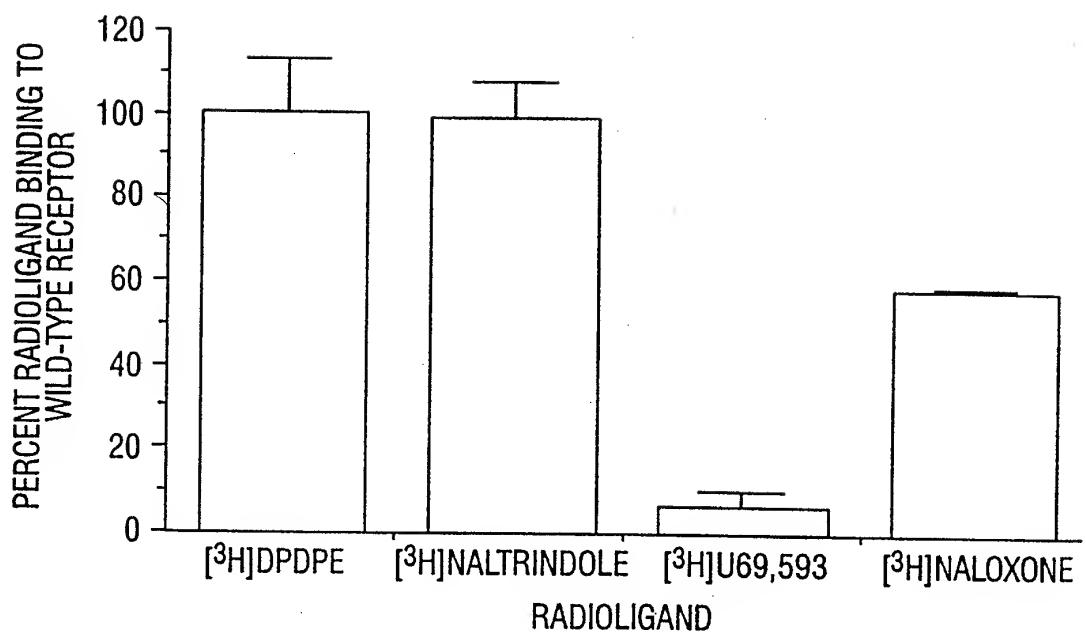


FIG. 8

REPLACEMENT  
SHEET

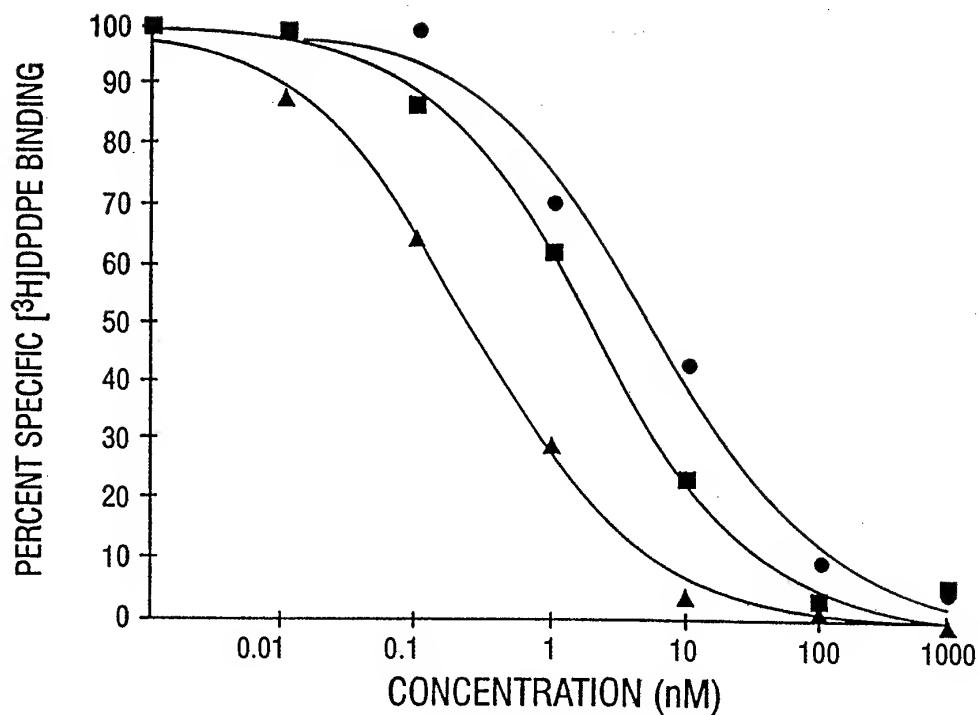


FIG. 9A

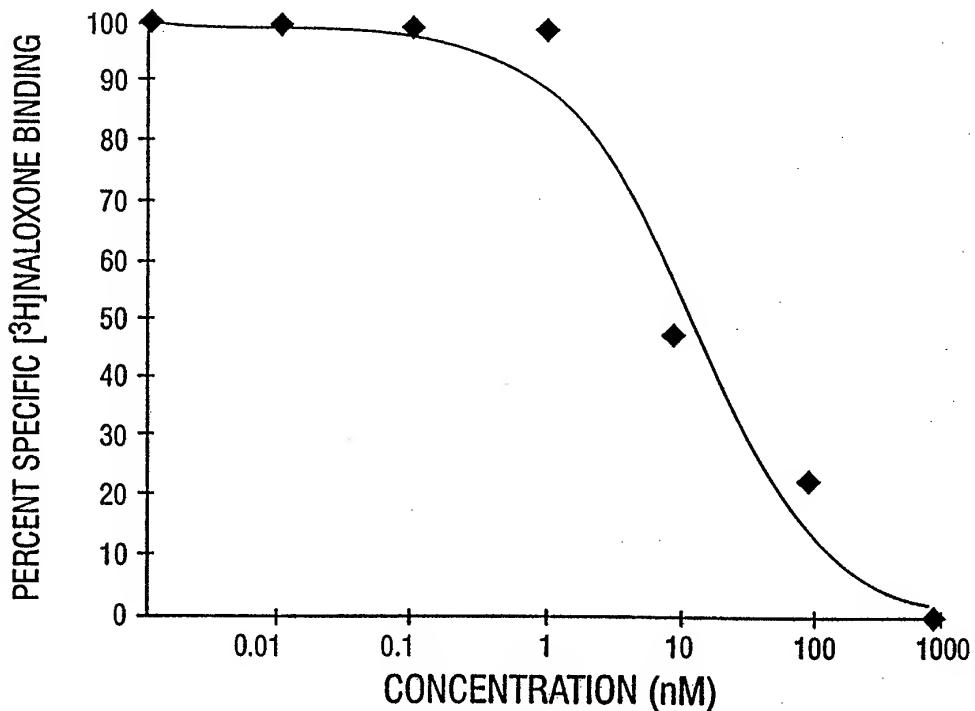


FIG. 9B

REPLACEMENT  
SHEET

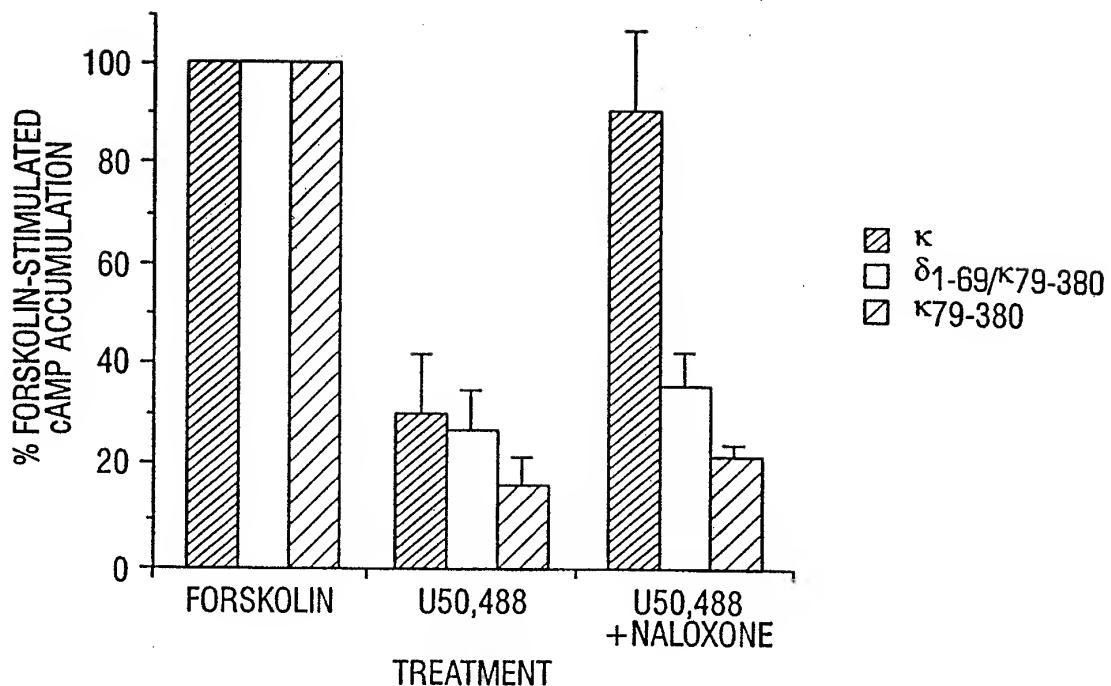


FIG. 10A

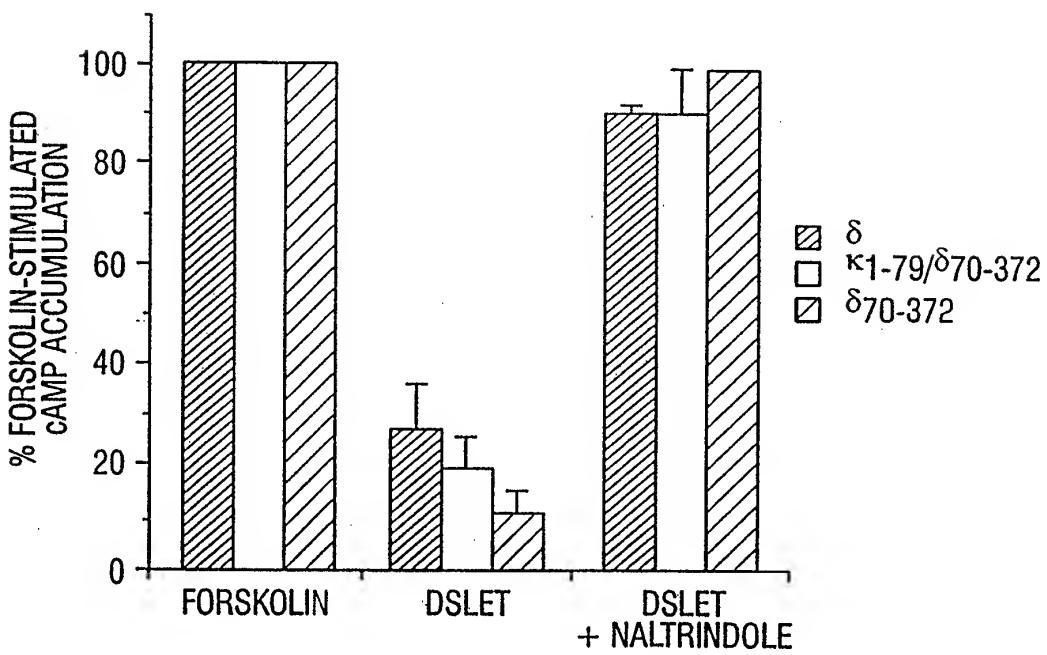


FIG. 10B

REPLACEMENT  
SHEET

FIG. 11A

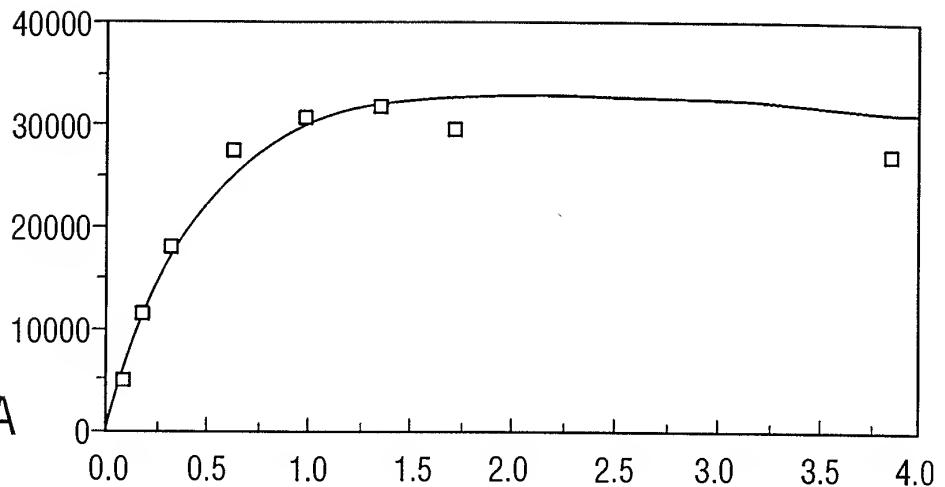


FIG. 11B

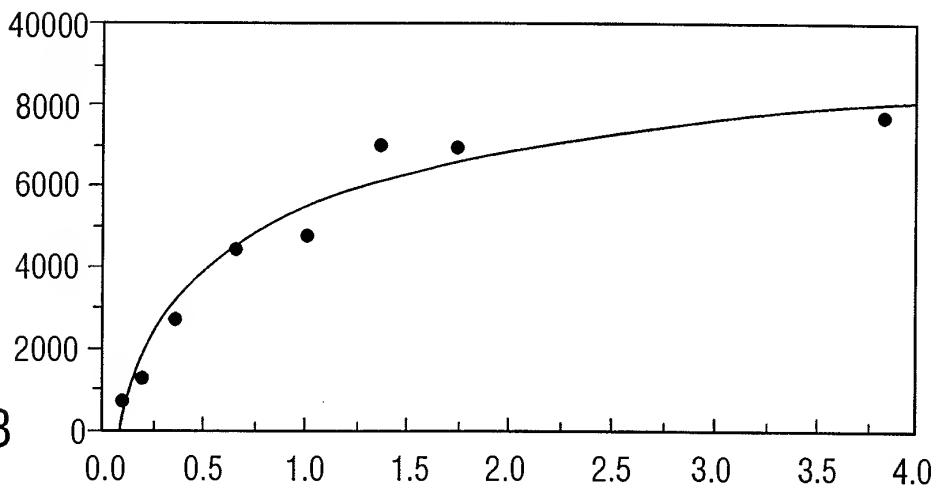
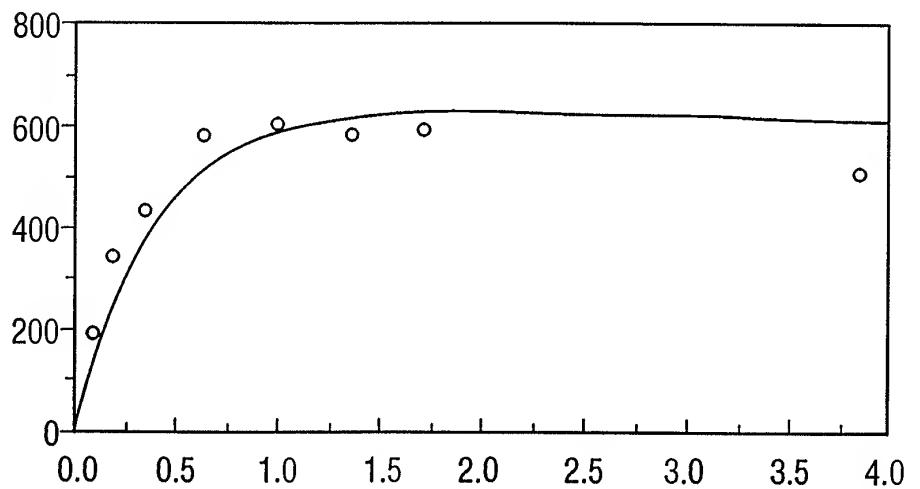


FIG. 11C



REPLACEMENT  
SHEET

FIG. 12A

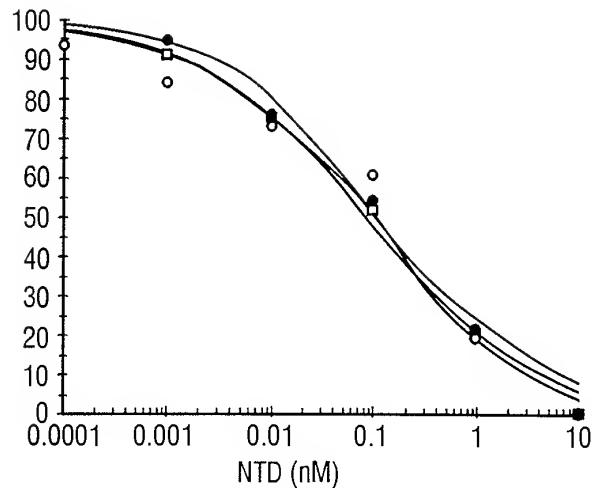


FIG. 12B

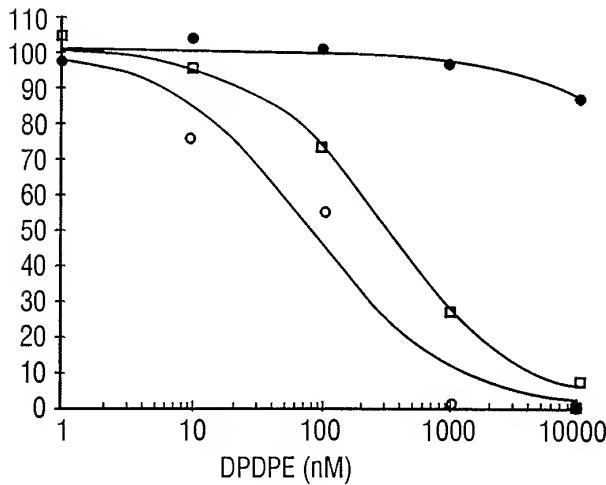
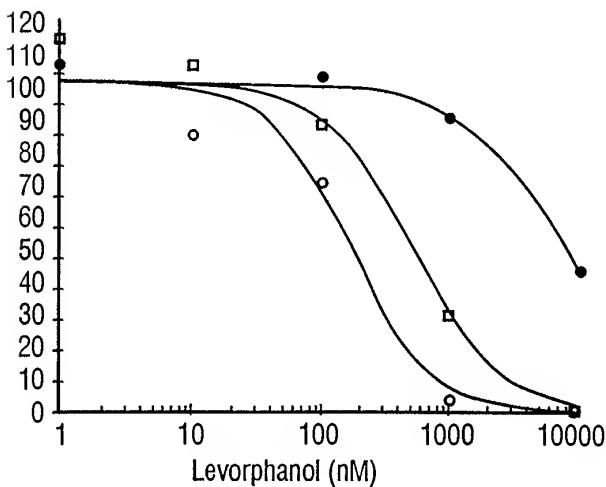


FIG. 12C



REPLACEMENT  
SHEET

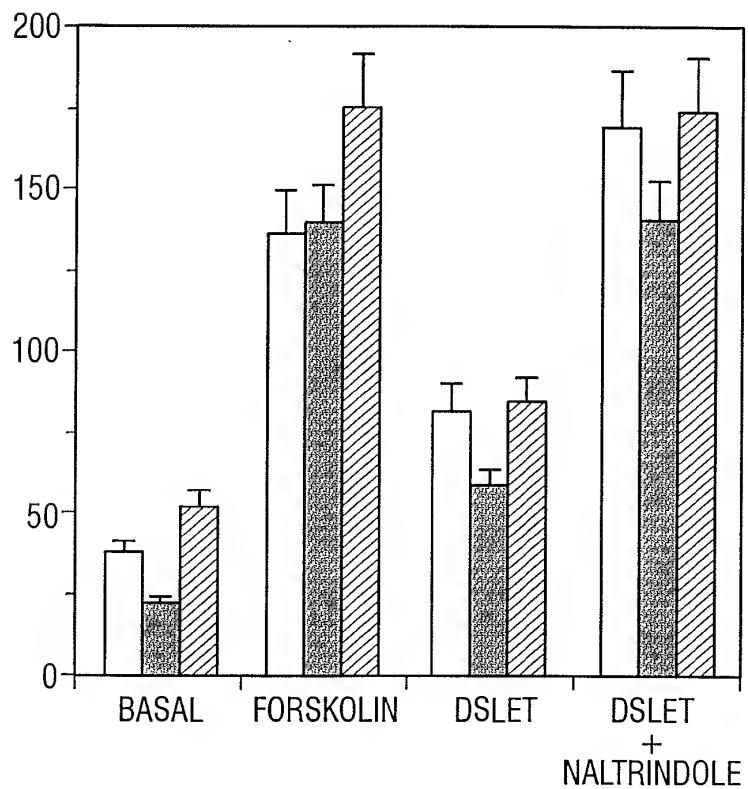


FIG. 13

REPLACEMENT  
SHEET

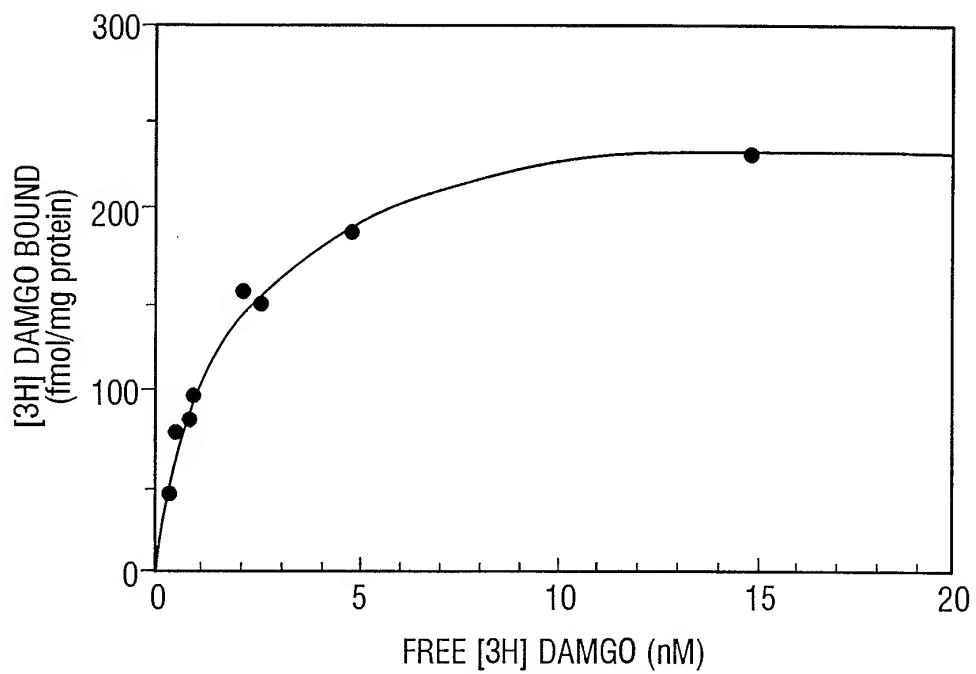


FIG. 14A

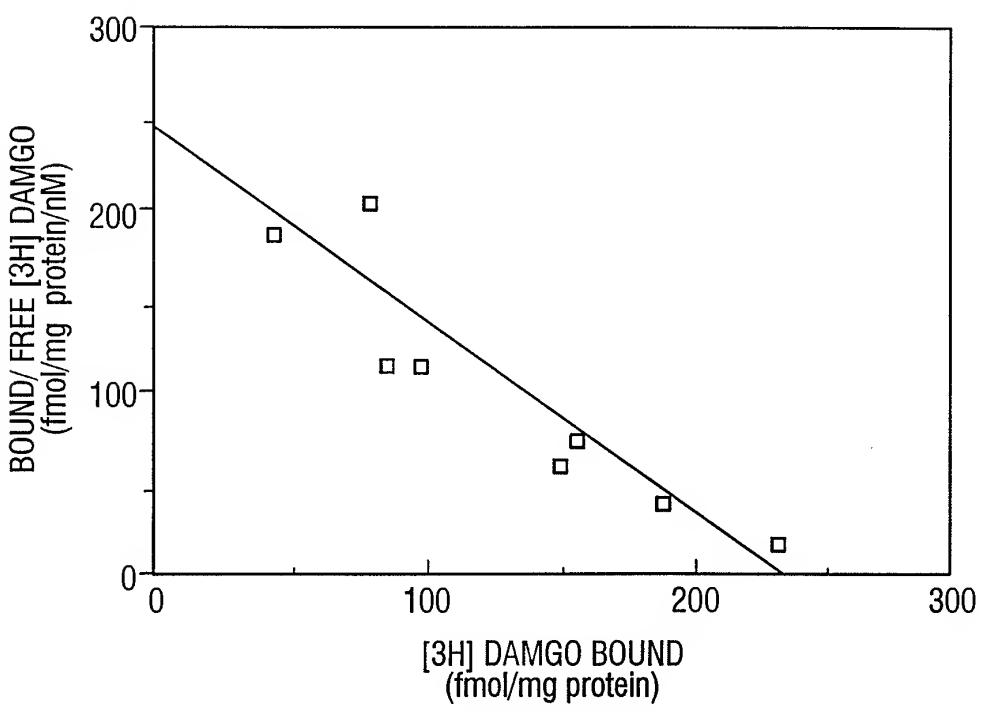


FIG. 14B

REPLACEMENT  
SHEET

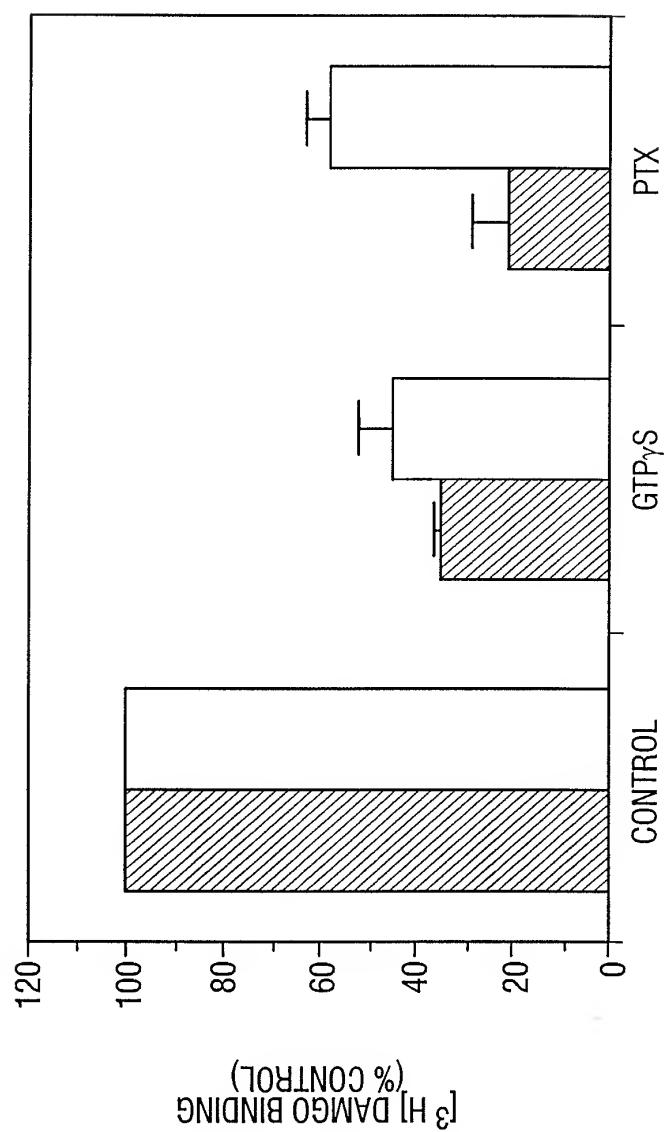


FIG. 15

REPLACEMENT  
SHEET

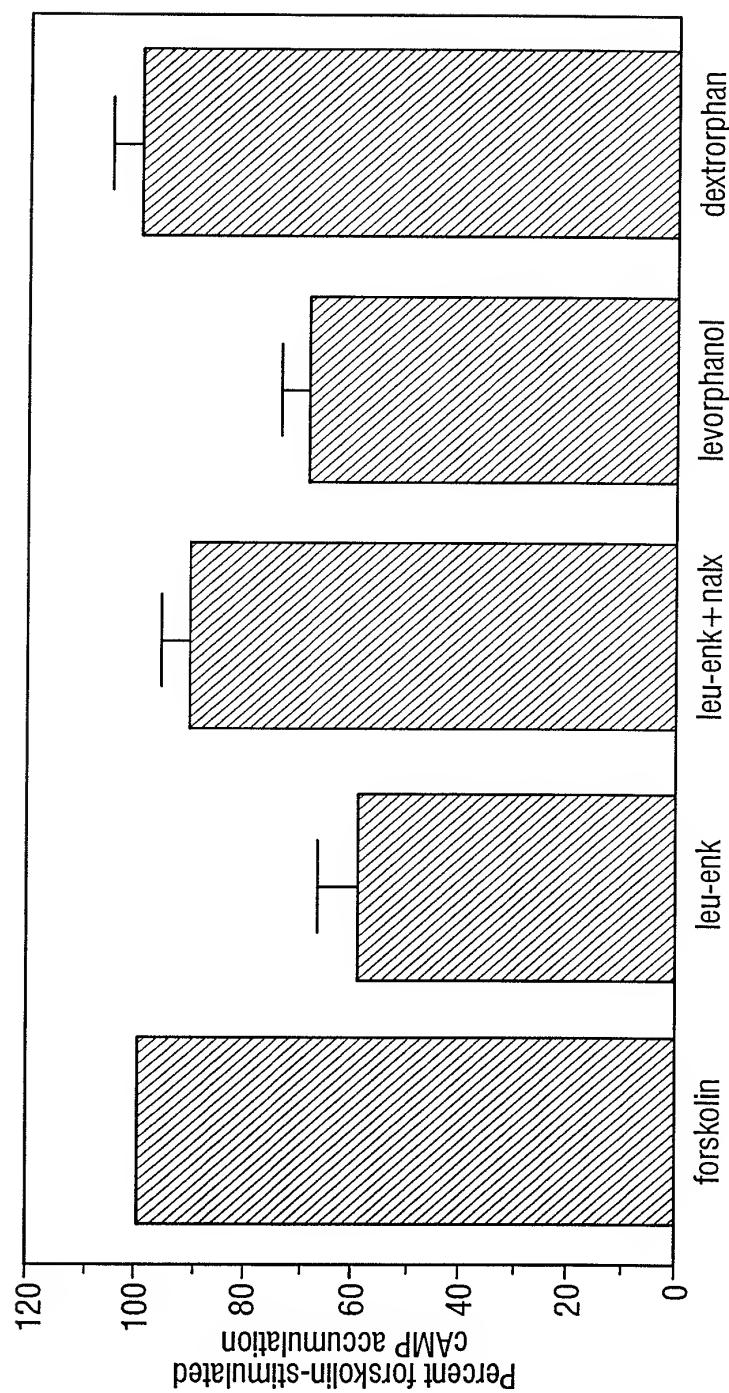


FIG. 16

REPLACEMENT  
SHEET

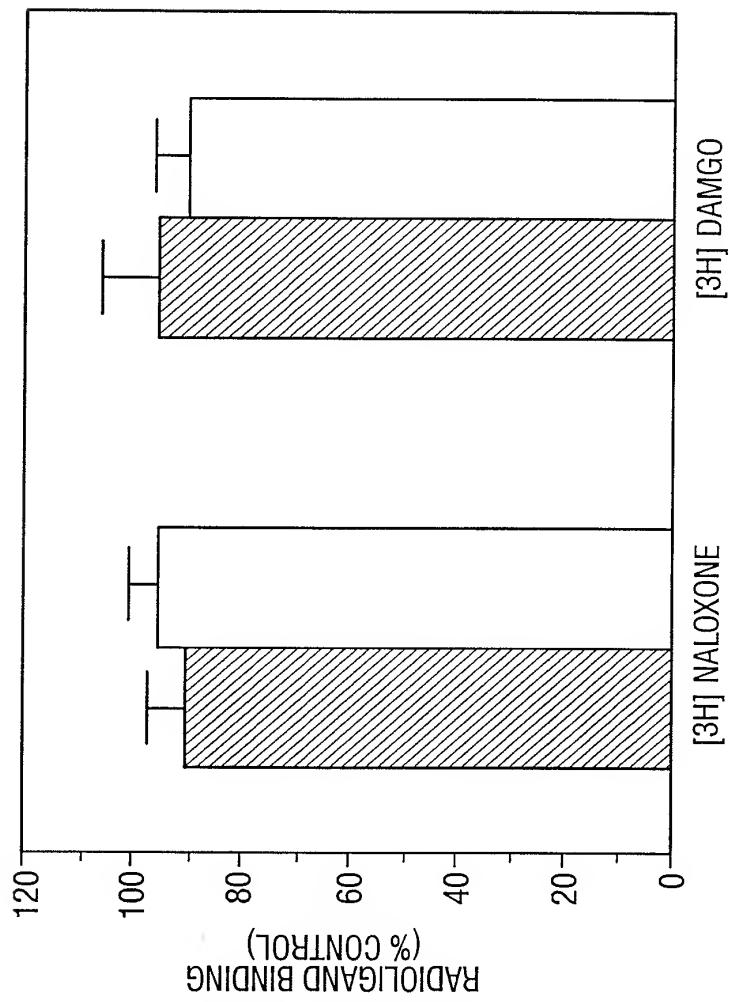


FIG. 17

**REPLACEMENT  
SHEET**

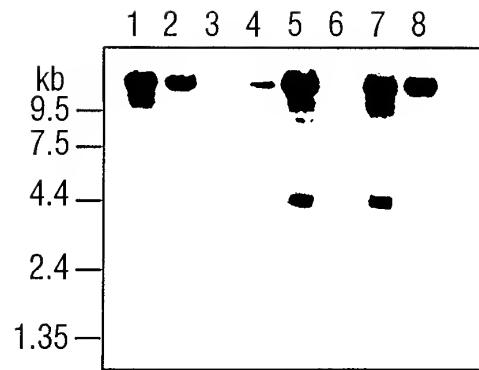


FIG. 18